

Attorney Docket No.:

MAR 26 2002

**INVENTORS' DECLARATION (Multiple Inventors)**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; that I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention or design entitled **IMPROVED SEMICONDUCTOR LASER (b)**, the specification of which:

is attached hereto; or  
 was filed in the United States on 27 July 2001 as Application Serial No. 09/915,802  
 was filed as International Application Serial Number \_\_\_\_\_ on \_\_\_\_\_, which application designated the United States of America; or  
 was the subject of an amendment filed in the U.S. Patent and Trademark Office on \_\_\_\_\_

that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; and that I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b) of any foreign application(s) for patent, utility model or inventor's certificate designated below, or under §365(a) of any application filed under the Patent Cooperation Treaty which designated at least one country other than the United States of America, and have also identified below any foreign application(s) for patent, utility model or inventor's certificate having a filing date before that of the application to which priority is claimed:

<u>ApplicationN umber</u>	<u>Country</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
00 18 573.9	GB	27 JULY 2001	

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below or under 35 U.S.C. §365(c) of any PCT International application designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

~~COPY OF PAPERS  
ORIGINALLY FILED  
01/18/02~~

Direct all telephone calls to Jefferson Perkins at Telephone No. 312-368-7073.

Address all correspondence to:

Piper Marbury Rudnick & Wolfe  
P.O. Box 64087  
Chicago, Illinois 60440-0807.

I hereby acknowledge that Piper Marbury Rudnick & Wolfe represents the assignee of the above-identified invention and does not represent me.

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Attorney Docket No.:

Full Name of First Joint Inventor: JOHN HAIG MARSH

Inventor's signature: John Haig Marsh

Date: 22/4/2001

Residence: UNITED KINGDOM

Citizenship: BRITISH

Post Office Address: 1 BELLHEUGH GARDENS  
GLASGOW  
G12 0SN  
UNITED KINGDOM

Full Name of Second Joint Inventor: CRAIG JAMES HAMILTON

Inventor's signature: Craig James Hamilton

Date: 23/4/2001

Residence: UNITED KINGDOM

Citizenship: BRITISH

Post Office Address: 45 LAMONT AVENUE

Direct all telephone calls to Jefferson Perkins at Telephone No. 312-368-7073.

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Piper Marbury Rudnick & Wolfe  
P.O. Box 64087  
Chicago, Illinois 60440-0807.

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Attorney Docket No.:

Full Name of First Joint Inventor: JOHN HAIG MARSH

Inventor's signature: John Haig Marsh

Date: 22/11/2001

Residence: UNITED KINGDOM

Citizenship: BRITISH

Post Office Address: 1 BELLHEUGH GARDENS  
GLASGOW  
G12 0SN  
UNITED KINGDOM

Full Name of Second Joint Inventor: CRAIG JAMES HAMILTON

Inventor's signature: Craig James Hamilton

Date: 23/11/2001

Residence: UNITED KINGDOM

Citizenship: BRITISH

Post Office Address: 45 LAMONT AVENUE

FILE No.756 18.12.'01 17:0 ID:C.&amp; F. GLASGOW

FAX:01- 221 7739

PAGE 2/ 3

Attorney Docket No.:

MAR 26 2002  
SPL

## IN THE UNITED STATES PATENT &amp; TRADEMARK OFFICE

In re the application of:

Serial No.: To Be Assigned

Filed: Herewith

For:

Assistant Commissioner for Patents  
Washington, D.C. 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:  
Assistant Commissioner for Patents, Washington,  
D.C. 20231, on

*December 20, 2001*  
*Typhanie Garner-Villase*  
*December 20, 2001*

Date

Name

Date of Signature

CERTIFICATE UNDER 37 C.F.R. §3.73(b) AND POWER OF ATTORNEY

I, DR CATHY GARNER, DIRECTOR OF RESEARCH AND ENTERPRISE

of THE UNIVERSITY OF GLASGOW, a UNITED KINGDOM Corporation ("Assignee"). The Assignee is the owner of the entire right, title and interest in the above-identified patent application ("the Patent Application") by virtue of an assignment from the inventor(s) of the Patent Application. As evidence of this assignment, the Assignee points to the enclosed copy of the Assignment from the inventor(s) to THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW that will be submitted to the U.S. Patent and Trademark Office on the same day that this document is filed.

The undersigned is empowered to sign this document on behalf of the Assignee and has full power to grant and revoke powers of attorney.

Assignee hereby appoints as its attorneys to prosecute this Patent Application and to transact all business in the U.S. Patent and Trademark Office connected with the Patent Application and with any resulting patent: Joel H. Bootzin, Reg. No. 42,343; Mark I. Feldman, Reg. No. 26,880; Jonathan D. Feuchtwang, Reg. No. 41,017; R. Blake Johnston, Reg. No.

FILE No.756 18.12. '01 17:09 D:C.&amp; F. GLASGOW

FAX:0141 1 7739

PAGE 3/ 3

**PATENT APPLICATION**

41,097; Michael L. Kenaga, Reg. No. 34,639; Jefferson Perkins, Reg. No. 31,407; Micah R. Onixa, Reg. No. 47,834; David J. Richter, Reg. No. 26,221; William Terry Rifkin, Reg. No. 26,501; James P. Ryther, Reg. No. 20,424; Thomas W. Ryan, Reg. No. 43,072; Steven B. Kelber, Reg. No. 30,073; Marc R. Labgold, Ph.D., Reg. No. 34,651, Laura A. Donnelly, Reg. No. 38,435; Catherine Bax Richardson, Reg. No. 39,007; Russell O. Paige, Reg. No. 40,758; James M. Heinz, Reg. No. 41,828; Laura D. Nammo, Reg. No. 42,024 and Amy L. Miller, Reg. No. 43,804, all of said attorneys being of the firm of Piper Marbury Rudnick & Wolfe, with full power of substitution and revocation, to prosecute this application and represent the undersigned before all competent International Authorities.

Please direct all correspondence to:

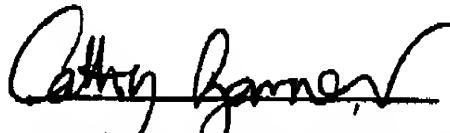
**Piper Marbury Rudnick & Wolfe P.O. Box 64807 Chicago, Illinois 60440-0807**

Please direct all telephone calls to:

**Jefferson Perkins(312) 368-7073**

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature:



Title:

Catherine Bax Richardson

Date:

12-26-2001

FORM PTO-1619A  
Expires 06/30/99  
OMB 0551-0027

U.S. Department of Commerce  
Patent and Trademark Office  
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MAR 26 2002

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 Departmental File Secret File**Conveying Party(ies)** Mark if additional names of conveying parties attachedExecution Date  
Month Day YearName (line 1)  Marsh, John Haig

12/07/2001

Name (line 2) **Second Party**Name (line 1)  Hamilton, Craig JamesExecution Date  
Month Day YearName (line 2) **Receiving Party** Mark if additional names of receiving parties attachedName (line 1)  THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW

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United Kingdom

G12 8QQ

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OMB 0651-0227

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U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

**Correspondent Name and Address**

Area Code and Telephone Number

(312) 368-7073

Name **Jefferson Perkins, Esq.**Address (line 1) **Piper Marbury Rudnick & Wolfe**Address (line 2) **P.O. Box 64807**Address (line 3) **Chicago, IL 60664-0807**

Address (line 4)

**Pages** Enter the total number of pages of the attached conveyance document  
including any attachments. # **2**

**Application Number(s) or Patent Number(s)** Mark if additional numbers attached

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**Patent Application Number(s)**

09/916802

Month Day Year

If this document is being filed together with a new Patent Application, enter the date the patent application was

**Patent Cooperation Treaty (PCT)**

PCT

PCT

PCT

Enter PCT application number

only if a U.S. Application Number  
has not been assigned.

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**Number of Properties**Enter the total number of properties involved. # **1****Fee Amount**Fee Amount for Properties Listed (37 CFR 3.41): \$ **40.00****Method of Payment:**Enclosed Deposit Account **Deposit Account**(Enter for payment by deposit account or if additional fees can be charged to the  
Deposit Account Number: # **18-2284**)Authorization to charge additional fees: Yes  No **Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Jefferson Perkins / Reg. No. 31,407

Name of Person Signing

Signature

20 Dec 2001

Date

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# RECORDATION FORM COVER SHEET

## CONTINUATION

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PATENT

### Conveying Party(ies)

Enter additional Conveying Parties

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Execution Date  
Month Day Year  
12/07/2001

Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Name (line 1)

Name (line 2)

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Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

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Name (line 1)

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receiving party is not  
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Name (line 2)

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Address (line 2)

Address (line 3)

City

State/Country

Zip Code

### Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

#### Patent Application Number(s)

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**ASSIGNMENT (Multiple Inventors)**

**WHEREAS**, I, one of the undersigned joint inventors, of residence as listed, having invented certain new and useful improvements as below entitled, for which I have applied for a United States patent, said application having been executed on the date set forth below; and

**WHEREAS**, THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, (hereinafter referred to as "Assignee"), a corporation of the UNITED KINGDOM, with an address of GILBERT SCOTT BUILDING, UNIVERSITY OF GLASGOW, UNIVERSITY AVENUE, GLASGOW, G12 8QQ, desires to acquire our entire right, title and interest in and to the invention, and in and to said application and any patent that may issue thereon:

**NOW, THEREFORE**, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, and continuations-in-part thereof; and we authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention insofar as my interest is concerned, to Assignee.

We also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications for and obtain patents, utility models, industrial models and designs for said invention in \_\_\_\_\_

\_\_\_\_\_ own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

**IMPROVEMENTS IN OR RELATING  
TO SEMICONDUCTOR LASERS**

Attorney Docket No.:

P6251-(301446-000019)

Signature of Inventor:

John Haig Marsh

Inventor's Name:

**JOHN HAIG MARSH**

Residence (City, Province or State, Country):

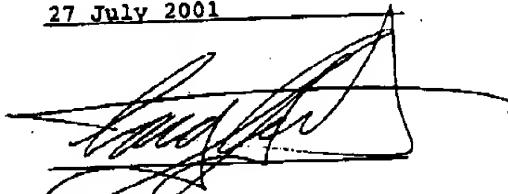
**GLASGOW, UNITED KINGDOM**

Date of Assignment:

7 December 2001

Date Application Executed:

27 July 2001



**CRAIG JAMES HAMILTON**

Signature of Inventor:

  
**RENFREWSHIRE, UNITED  
KINGDOM**

Inventor's Name:

Residence (City, Province or State, Country):

Date of Assignment:

7 December 2001

Date Application Executed:

27 July 2001

Signature of Inventor:

  
**OLEK PETER KOWALSKI**

Inventor's Name:

Residence (City, Province or State, Country):

  
**RENFREWSHIRE, UNITED  
KINGDOM**

Date of Assignment:

7 December 2001

Date Application Executed:

27 July 2001